

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 71-42

REVISED WASTE DISCHARGE REQUIREMENTS  
FOR  
CONTRA COSTA COUNTY SANITATION DISTRICT NO. 7A, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. This Regional Board prescribed requirements for Contra Costa County Sanitation District No. 7A, called the discharger below, in Resolution No. 514 on November 21, 1963, and Resolution No. 69-40 on August 28, 1969.
2. The discharger submitted a report of waste discharge dated April 13, 1971, stating that it is proposed to provide secondary treatment facilities with a design flow of 1.4 million gallons per day (mgd) in place of the existing 0.4 mgd primary treatment plant.
  - a. Waste "A" is 1.0 mgd of sewage effluent being and to be discharged above the surface of Suisun Bay at its shore adjacent to the treatment plant one-half mile east of Nichols Road via a 12-inch pipe called Outfall "A" below.
  - b. Waste "B" is digested sludge from the treatment plant, and is discharged into an existing drying bed called Land Disposal Site "L-1" below.
3. The Board adopted a Bay Water Quality Control Plan on March 26, 1970, and a Land Disposal Policy on September 25, 1969.
4. The beneficial uses of the waters of Suisun Bay and contiguous water bodies are:
  - a. Domestic water supply seasonally
  - b. Industrial cooling water supply year-round
  - c. Water-skiing, pleasure boating, marinas, fishing and hunting
  - d. Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting
  - e. Navigation channels and port facilities
  - f. Esthetic enjoyment

5. Land within 1000 feet of these discharge points is used for residence, recreation, pasture, transportation, and industry.
6. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for these discharges.
7. The Board in a public meeting heard and considered all comments pertaining to these discharges.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Waste Discharge Requirements

1. The treatment or disposal of wastes shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge of Waste "A" shall not cause:
  - a. Floating, suspended, or deposited macroscopic particulate matter or foam, in waters of the State at any place;
  - b. Bottom deposits or aquatic growths at any place;
  - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place;
  - d. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place;
  - e. Waters of the State to exceed the following limits of quality at any point:

Dissolved oxygen

5.0 mg/l minimum

When natural factors cause lesser concentrations then this discharge shall not cause further reduction in the concentration of dissolved oxygen

Dissolved sulfide

0.1 mg/l maximum

Other substances

any one or more substances in concentrations that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for consumption;

- f. Waters of the State to exceed the following limits of quality at any point east of the western end of Chippis Island and within 2000 feet of any diversion being used for a domestic water supply to exceed the following limits of quality:

Carbon chloroform extract	0.2 mg/l maximum
Chromium, Hexavalent	0.05 mg/l maximum
Phenols	0.001 mg/l maximum

Any one or more substances in concentrations that will cause taste or odor in domestic water supplies.

3. Waste "A" as discharged from Outfall "A" shall meet these quality limits at all times:

- a. In any grab sample or instantaneous observation:

pH	7.0 minimum
	8.5 maximum

Settleable Matter

The arithmetic average of  
any six or more samples  
collected on any day      0.5 ml/l/hr. maximum

80% of all individual  
samples collected during  
maximum daily flow over  
any 30-day period      0.4 ml/l/hr. maximum

Any sample      1.0 ml/l/hr. maximum.

- b. In any representative set of samples:

Toxicity: survival of test fishes in 96-hour bioassays of the  
waste as discharged

Any determination      70% minimum

Average of any three or  
more consecutive deter-  
minations made during any  
21 or more days      90% minimum

Coliform Organisms      240 MPN/100 ml, median of five con-  
secutive samples, maximum

10,000 MPN/100 ml, maximum any  
single sample, when verified by a  
repeat sample taken within 48 hours

Analyses to be determined by the multiple-tube fermentation method using at least two portions per decimal dilution.

c. In any representative, 24-hour composite sample:

Nutrients to be prescribed at the earliest practicable date

4. The mean daily flow of waste "A" for any seven consecutive days shall not exceed 1.4 mgd.
5. The discharge of Waste "B" shall not cause waste material to be in any position where it is, or can be carried from Land Disposal Site "L-1" and deposited into waters of the State.
6. Land Disposal Site "L-1" shall have facilities adequate to divert surface runoff from adjacent areas, to protect boundaries of the site from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site. Adequate protection is defined as protection from at least a 100-year storm, and from the highest tidal stage that may occur.
7. The disposal of material acceptable only at Class I waste disposal sites in Land Disposal Site "L-1" is prohibited.
8. The disposal of Waste "B" and the operation of Land Disposal Site "L-1" shall be in conformance with all provisions of this Board's Resolution No. 69-42 pertaining to Class II disposal sites.

B. Provisions

1. This Order includes items numbered 1, 2, 4, 5, 6 and 7 of the attached "Reporting Requirements", dated August 28, 1970.
2. This Order includes items numbered 1, 2, 3, 4, 5 and 6 of the attached "Notifications", dated January 6, 1970.
3. Contra Costa County Sanitation District No. 7A shall comply with the following time schedule and reporting program to assure compliance with the waste discharge requirements of this order except settleable matter - any sample, and disinfection:

<u>STEP</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DATE</u>
Authorization of Funding	Sept. 25, 1971	Oct. 4, 1971
Complete Final Design	July 31, 1971	August 16, 1971
Commence Construction	Oct. 15, 1971	Oct. 29, 1971
Complete 50% of Construction	April 15, 1972	May 1, 1972
Compliance with Requirements	August 15, 1972	Sept. 15, 1972

4. This Board's Resolution No. 514 and that part of Resolution No. 69-40 pertaining to this discharger are rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 24, 1971.

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Executive Officer